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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/654,462	09/01/2000	Thomas M. Jessell	62166/JPW/EMW	6093	
John P White	7590 01/04/200	EXAMINER			
Cooper & Dun			FALK, ANNE MARIE		
1185 Avenue of the Americas New York, NY 10036			ART UNIT	PAPER NUMBER	
			1632		
SHORTENED STATUTO	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MC	ONTHS	01/04/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application	No.	Applicant(s)		
Office Action Summary		09/654,462		JESSELL ET AL.		
		Examiner		Art Unit		
	· · · · · · · · · · · · · · · · · · ·	Anne-Marie	Falk, Ph.D.	1632		
 Period for	<ul> <li>The MAILING DATE of this communication app</li> <li>Reply</li> </ul>	ears on the o	over sheet with the co	rrespondence address		
A SHC WHICH - Extens after S - If NO p - Failure Any re	PRTENED STATUTORY PERIOD FOR REPLY HEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 (X) (6) MONTHS from the mailing date of this communication. Deeriod for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, ply received by the Office later than three months after the mailing dipatent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS 36(a). In no event will apply and will e c, cause the applica	S COMMUNICATION t, however, may a reply be time expire SIX (6) MONTHS from to ation to become ABANDONED	bly filed the mailing date of this communication. (35 U.S.C. § 133).		
Status						
2a)☐ <sup>-</sup>	Responsive to communication(s) filed on <u>18 Sec</u> This action is <b>FINAL</b> . 2b) $\boxtimes$ This Since this application is in condition for alloware closed in accordance with the practice under <i>E</i>	action is not nce except fo	n-final. or formal matters, pro			
Dispositio	on of Claims					
5)□ ( 6)⊠ ( 7)□ (	Claim(s) <u>1-3</u> is/are pending in the application.  (a) Of the above claim(s) is/are withdray  Claim(s) is/are allowed.  Claim(s) <u>1-3</u> is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or					
Application	on Papers					
10)⊠ T /	The specification is objected to by the Examine The drawing(s) filed on <u>01 September 2000</u> is/a Applicant may not request that any objection to the GReplacement drawing sheet(s) including the correction in the oath or declaration is objected to by the Ex	are∶ a)⊠ aco drawing(s) be tion is required	held in abeyance. See I if the drawing(s) is obje	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority u	nder 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
2) Notice 3) Inform	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	· 4	Interview Summary ( Paper No(s)/Mail Dai  Notice of Informal Pa	te		

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### DETAILED ACTION

The amendment filed September 18, 2006 (hereinafter referred to as "the response") has been entered. Claim 1 has been amended.

Accordingly, Claims 1-3 remain pending in the instant application.

### Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on September 18, 2006 has been entered.

The rejection of Claims 1-3 under the judicially created doctrine of obviousness-type double patenting, as being unpatentable over Claims 1-3 of U.S. Patent No. 6,955,802, is withdrawn in view of the amendment to the claims. U.S. Patent No. 6,955,802 does not teach "a neural stem cell which expresses Chx10," as presently recited in the claims. As noted herein below, however, the newly added limitation is new matter.

## Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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### New Matter

Claims 1-3 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The amended claims include new matter.

MPEP 2163.03 provides that an amendment to the claims or the addition of a new claim must be supported by the description of the invention in the application as filed. *In re Wright*, 866 F.2d 422, 9 USPQ2d 1649 (Fed. Cir. 1989). Applicants should specifically point out the support for any amendments made to the claims. MPEP 2163 states that new or amended claims which introduce elements or limitations which are not supported by the as-filed disclosure violate the written description requirement. See, e.g., *In re Lukach*, 442 F.2d 967, 169 USPQ 795 (CCPA 1971) and *In re Smith*, 458 F.2d 1389, 1395, 173 USPQ 679, 683 (CCPA 1972).

The claims are directed to a method of converting a neural stem cell which expresses Chx10 into a V2 neuron which comprises introducing into the neural stem cell, ex vivo, a nucleic acid which encodes homeodomain transcription factor Nkx6.1 protein, wherein the encoded protein is expressed in the stem cell so as to thereby convert the stem cell into the V2 neuron. The phrase "which expresses Chx10" has been added by amendment. However, the as-filed specification does not provide support for "a neural stem cell which expresses Chx10" nor for the use of "a neural stem cell which expresses Chx10" in the claimed method of converting a neural stem cell to a V2 neuron. On the contrary, the specification clearly explains that V2 interneurons are defined by expression of Chx10 (page 22, lines 13-15). Thus, one of skill in the art would readily understand that neural stem cells do not express Chx10 and that expression of Chx10 is used to identify V2 interneurons.

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At page 6 of the response, Applicants assert that the present claims are directed to a "method of converting a neural stem cell which expresses Chx10 into a V2 neuron." Applicants further assert that the specification describes V2 interneurons as being defined by expression of Chx10, at page 22, lines 13-15 of the specification. Applicants emphasize that Chx10 is expressed only in V2 interneurons. However, the **claims** refer to "a neural stem cell which expresses Chx10" not a V2 interneuron expressing Chx10. The Examiner has reviewed the specification and finds no support in the as-filed specification for "a neural stem cell which expresses Chx10." Thus, the as-filed specification does not contemplate or describe the method as presently recited in the claims.

Thus, the amended claims include new matter.

#### Conclusion

No claims are allowable.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anne-Marie Falk whose telephone number is (571) 272-0728. The examiner can normally be reached Monday through Friday from 9:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Paras, can be reached on (571) 272-4517. The central official fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

Anne-Marie Falk, Ph.D.

Anne-Marie Falk, PH.D PRIMARY EXAMINER